

Title (en)

FACIALLY AMPHIPHILIC POLYARYL AND POLYARYLALKYNYL POLYMERS AND OLIGOMERS AND USES THEREOF

Title (de)

FAZIAL AMPHIPHILE POLYARYL- UND POLYARYLALKYNYLPOLYMERE UND -OLIGOMERE UND DEREN ANWENDUNGEN

Title (fr)

POLYMERES ET OLIGOMERES DE POLYARYLE ET DE POLYARYLALKYNYLE AMPHIPHILES AU NIVEAU FACIAL

Publication

EP 1711455 A4 20071107 (EN)

Application

EP 05711747 A 20050121

Priority

- US 2005001885 W 20050121
- US 53827004 P 20040123

Abstract (en)

[origin: WO2005072246A2] The present invention discloses methods of use of facially amphiphilic polyaryl and polyarylalkynyl polymers and oligomers, including, but not limited to, pharmaceutical uses of the polymers and oligomers as antimicrobial agents and as antidotes for hemorrhagic complications associated with heparin therapy. The present invention also discloses novel facially amphiphilic polyaryl and polyarylalkynyl polymers and oligomers, compositions of the novel polymers and oligomers, including pharmaceutical compositions, and methods of designing and synthesizing the facially amphiphilic polyaryl and polyarylalkynyl polymers and oligomers.

IPC 8 full level

C07C 211/00 (2006.01); **A61K 31/74** (2006.01); **C07C 211/27** (2006.01); **C07C 217/58** (2006.01); **C07C 233/78** (2006.01); **C07C 279/12** (2006.01)

CPC (source: EP KR US)

A61K 31/135 (2013.01 - KR); **A61K 31/74** (2013.01 - EP KR US); **A61P 29/00** (2017.12 - EP); **A61P 31/00** (2017.12 - EP); **A61P 31/04** (2017.12 - EP); **A61P 31/10** (2017.12 - EP); **A61P 31/12** (2017.12 - EP); **A61P 39/02** (2017.12 - EP); **C07C 211/27** (2013.01 - EP US); **C07C 217/58** (2013.01 - EP US); **C07C 233/78** (2013.01 - EP US); **C07C 279/12** (2013.01 - EP US)

Citation (search report)

- [E] WO 2005123660 A2 20051229 - POLYMEDIX INC [US], et al & TETRAHEDRON , 57(44), 9055-9065 CODEN: TETRAB; ISSN: 0040-4020, 2001
- [X] DATABASE CA [online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; SHORTELL, DAVID B. ET AL: "Solid-phase approaches toward cyclic oligomers", XP002452174, retrieved from STN Database accession no. 2001:780080
- See references of WO 2005072246A2

Citation (examination)

- HUDSON J ET AL: "Photoactive antiviral and cytotoxic activities of synthetic thiophenes and their acetylenic derivatives", CHEMOSPHERE, PERGAMON PRESS, OXFORD, GB, vol. 19, no. 8-9, 1 January 1989 (1989-01-01), pages 1329 - 1343, XP002668477, ISSN: 0045-6535, [retrieved on 20030331], DOI: 10.1016/0045-6535(89)90080-5
- TEW G N ET AL: "De novo design of biomimetic antimicrobial polymers", PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES, NATIONAL ACADEMY OF SCIENCES, vol. 99, no. 8, 16 April 2002 (2002-04-16), pages 5110 - 5114, XP002973726, ISSN: 0027-8424, DOI: 10.1073/PNAS.082046199

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2005072246 A2 20050811; **WO 2005072246 A3 20060629**; AU 2005208771 A1 20050811; AU 2005208771 B2 20111124; CA 2554163 A1 20050811; CN 103012213 A 20130403; CN 1922133 A 20070228; EP 1711455 A2 20061018; EP 1711455 A4 20071107; EP 2468711 A2 20120627; EP 2468711 A3 20120919; JP 2007523064 A 20070816; JP 5260877 B2 20130814; KR 20070001959 A 20070104; KR 20120107142 A 20120928; TW 200603727 A 20060201; TW I388280 B 20130311; US 2005287108 A1 20051229; US 2012202887 A1 20120809; US 8222456 B2 20120717; US 8716530 B2 20140506

DOCDB simple family (application)

US 2005001885 W 20050121; AU 2005208771 A 20050121; CA 2554163 A 20050121; CN 200580005656 A 20050121; CN 201210371788 A 20050121; EP 05711747 A 20050121; EP 12000444 A 20050121; JP 2006551286 A 20050121; KR 20067016629 A 20060818; KR 20127022888 A 20050121; TW 94101908 A 20050121; US 201213365840 A 20120203; US 3878705 A 20050121